

🔍 Title: **JP2000026153A2: PRODUCTION OF NEW CARBON CERAMICS**

🔍 Country: **JP Japan**

🔍 Kind: **A2 Document Laid open to Public inspection**

🔍 Inventor: **ARAKI TAMIO;  
UNKNOWN;**

🔍 Assignee: **FURUKAWA JUICHI**  
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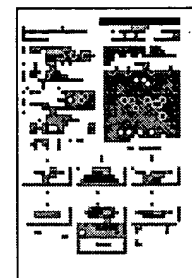
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🔍 Abstract:



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**PROBLEM TO BE SOLVED:** To obtain uniform high-quality reducing carbon ceramics with high productivity by charging a starting material consisting of a clay, a phenolic resin and a rare earth oxide into an electric furnace, filling an inert gas, heating the starting material to a specified temp. and introducing LPG.

**SOLUTION:** A mixture of a clay contg. about 40-55 wt.% activated carbon, a phenolic resin and a rare earth oxide is calcined as a starting material by heating to about 1,000°C in an atmosphere of an inert gas such as N<sub>2</sub> in an electric furnace and then LPG is introduced into the furnace and decomposed to deposit a carbon film on the resultant sintered body. After stopping the introduction of LPG, the sintered body is allowed to cool to about 420°C while introducing an inert gas and it is allowed to cool to room temp. Carbon deposition is allowed to occur by gas expansion and pressure dropping while the cooling proceeds. The surface oxidation of the sintered body is prevented by the carbon film and the objective high-quality carbon ceramics free from unevenness in the quality is obtd. in a high yield.

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